

on the thighs; sides of the forehead grey; sides of neck, outsides of the shoulders and fore legs fulvous; crown and nape blackish.

Hab. Brazil.

The series of skulls of different species in the British Museum collection do not present any characters by which they can be divided: the adult skulls are almost all of nearly the same size and proportions; they only differ in the form of the impression of the muscles of the lower jaw. In some they are separated only by a very thin central ridge, extending the whole length of the skull; in others they are separated by a broad space of nearly equal width; but in some others the edges of the scars are far apart in front, and close together, with a linear ridge, behind, leaving a triangular smooth space on the fore part of the crown. But these are doubtless changed by age, though there must be a considerable difference in the form of the muscles of the last group and those of the two former ones.

15. DESCRIPTIONS OF THIRTEEN NEW SPECIES OF LAND-SHELLS FROM FORMOSA, IN THE COLLECTION OF THE LATE HUGH CUMING, COLLECTED BY MR. ROBERT SWINHOE, VICE-CONSUL OF THAT ISLAND. BY DR. LOUIS PFEIFFER.

(Plate XLVI.)

1. *HELIX VESTA*, Pfr. (Pl. XLVI. fig. 9). *T. subobtecte perforata, depressa, tenuis, lævigata, nitidissima, pellucida, virenti-cornea; spira subconoidea, vertice minuto, papillari; sutura marginata; anfr. 5½, convexiusculi, regulariter accrescentes, ultimus rotundato-depressus, antice non descendens, basi medio impressus, perforatione callo subclausa; apertura obliqua, dilatato-lunaris; perist. simplex, marginibus subconvergentibus, columellari arcuatim ascendente, ad insertionem reflexiusculo.*
Diam. maj. 15½, min. 13, alt. 7½ mill.

2. *HELIX SHERMANI*, Pfr. (Pl. XLVI. fig. 5). *T. umbilicata, lentiformis, carinata, solidula, oblique striata et sub lente subgranulata, rufo-fusca; spira conoideo-convexa, vertice minuto, subpapillari, pallido; sutura marginata; anfr. 7, lente accrescentes, planiusculi, ultimus non descendens, acute carinatus, subtus convexior; umbilicus latiusculus; apertura fere diagonalis, securiformis; perist. simplex, marginibus vix convergentibus, basali arcuato, ad insertionem non dilatato.*
Diam. maj. 18, min. 16½, alt. 8 mill.

3. *HELIX GRANTI*, Pfr. (Pl. XLVI. fig. 10). *T. umbilicata, turbinata, tenuiuscula, striatula, sub lente fortiore minutissima decussatula, parum nitens, fusco-cornea; spira subregulariter conica, vertice subtili; anfr. 6½, convexiusculi, ultimus infra carinam acutam, marginem fere attingentem convexior, in um-*



G.B Sowerby lith.

M. & N. Hanhart imp.

NEW FORMOSAN SHELLS

bilicum mediocrem subito ascendens, antice vix descendens; apertura diagonalis, rotundato-lunaris; perist. tenue, marginibus convergentibus, supero breviter expanso, basali arcuato, reflexo, columellari dilatato, patente.

Diam. maj. 15, min. 13, alt. 8 mill.

4. *HELIX SWINHOEI*, Pfr. (Pl. XLVI. fig. 6). *T. mediocriter umbilicata, turbinato-depressa, solidula, oblique ruguloso-striata striisque spiralibus confertissimis subtiliter sculpta, unde subsericea, fulvo-fusca, submarmorata; spira breviter turbinata, obtusula; anfr. 5-5½, superi planiusculi, ultimus vix descendens, superne subtumidus, medio carina prominente obtusa cinctus, subtus inflatus; apertura diagonalis, rotundato-lunaris, intus cærulescenti-margaritacea; perist. carneo-fuscum, marginibus convergentibus, callo tenui junctis, supero anguste expanso, basali reflexiusculo, versus insertionem sensim dilatato.*

Diam. maj. 52-58, min. 43-48, alt. 27-28 mill.

β. *Minor, fulva, peristomate pallide roseo, apertura intus alba.*

Diam. maj. 46, min. 39, alt. 25 mill.

5. *HELIX FORMOSENSIS*, Pfr. (Pl. XLVI. fig. 7). *T. sinistralis, umbilicata, subturbinato-depressa, tenuiuscula, oblique subtiliter striata, sub epidermide tenuissima cerea albida; spira breviter turbinata, vertice obtuso; anfr. 5½, regulariter accrescentes, parum convexi, ultimus peripheria obsolete unifasciatus et subangulatus, antice vix descendens, subtus convexus, striis spiralibus minutissimis sculptus, circa umbilicum mediocrem profundum non compressus; apertura diagonalis, late lunaris; perist. subincrassatum, marginibus remotis, supero sinuato, expansiusculo, basali reflexo, ad insertionem dilatato.*

Diam. maj. 26, min. 22½, alt. 12-13 mill.

6. *HELIX BACCA*, Pfr. (Pl. XLVI. fig. 8). *T. umbilicata, globoso-depressa, solida, levissime striatula, albo-lutescens, fasciis 3 castaneis (peripherica latiore) ornata; spira breviter turbinata, vertice subtili, carneo; anfr. 5½, modice convexi, ultimus non descendens, basi subinflatus, striis spiralibus obsoletissimis sculptus, circa umbilicum angustissimum impressus; apertura parum obliqua, lunaris, intus alba, fasciis pellucidibus; perist. album, undique breviter reflexum, marginibus remotis, basali ad insertionem dilatato, subangulato.*

Diam. maj. 23½, min. 20½, alt. 14 mill.

7. *HELIX MELLEA*, Pfr. (Pl. XLVI. fig. 4). *T. umbilicata, depressa, carinata, tenuiuscula, sub lente minutissime granulata, oleoso micans, pallide fulva; spira parum elevata, vertice obtuso; anfr. fere 5, planiusculi, regulariter accrescentes, ultimus antice vix descendens, infra carinam acutiusculam subinflatus; umbilicus mediocris, profundus; apertura parum obliqua, subangulato-lunaris; perist. albidum, marginibus vix convergentibus,*